DOCUMENT RESUME

ED 210 460 CE 030 665

TITLE	Surveying and Planning for Needed Curriculum and Instructional Material for Health Occupations Exploratory Programs. Research Project in Occupational Education. Final Report.
INSTITUTION	Pittsburg State Univ., Kans. Dept. of Vocational-Technical Education.
SPONS AGENCY	Kansas State Dept. of Education, Topeka. Div. of Vocational Education.
PUB DATE	30 Jun 81
NOTE	59p.
EDRS PRICE	MF01/PC03 Plus Postage.
DESCRIPTORS	*Allied Health Occupations Education; Annotated Bibliographies; *Curriculum Development; Educational Demand; *Educational Planning; Educational Resources; *Enrollment; Health Occupations; *Instructional Materials; National Surveys; Research Problems; Secondary Education; Vocational Education
IDENTIFIERS	Health Occupations Students of America; Kansas

ABSTRACT

In order to develop a more standardized curriculum and provide educators with available materials for conducting secondary health care occupations courses in Kansas, a project was conducted to determine the number and types of secondary health occupations education programs and the availability of curriculum and instructional material related to these programs. A survey was sent to 54 health occupations education supervisors in state vocational education agencies throughout the country, with an eventual reply rate of 85 percent (46 replies). Only initial information was received, and detailed descriptions of the various state programs were not obtained. Problems developed in lack of uniformity and titling of the programs, making comparisons difficult. Also, exact enrollment figures were very difficult to obtain, since most states do not break down enrollment figures by grade levels. However, incomplete figures did tend to show a decrease in health occupations enrollment. One trend noted, however, was the growth of the vocational student organization, Health Occupations Students of America (HOSA), which has more than doubled its membership from 1976 to 1980-81. In Kansas, there appears to be limited interest in expanding the number of secondary health occupations programs; however, there is a need to link health care awareness and orientation programs to health career exploration and health occupations skill development programs in order to meet future needs for health care personnel. (A bibliography of health occupations program standards, curriculum guides, educational resources, and sources is included in the study report.) (KC)

****
* Reproductions supplied by EDRS are the best that can be made *
* from the original document. *
****

ED210460

FINAL REPORT

SURVEYING AND PLANNING FOR NEEDED CURRICULUM AND INSTRUCTIONAL MATERIAL FOR HEALTH OCCUPATIONS EXPLORATORY PROGRAMS

RESEARCH PROJECT IN OCCUPATIONAL EDUCATION

Catherine Junge, R.N., M.S.
Director

Clifford Stewart
Research Assistant

In Cooperation With
The Department of Vocational-Technical Education
Pittsburg State University

Developed For

Division of Vocational Education Administration
Kansas State Department of Education

June 30, 1981

REFERENCE #81-133-17

CE 030 665

U.S. DEPARTMENT OF EDUCATION
NATIONAL INSTITUTE OF EDUCATION
EDUCATIONAL RESOURCES INFORMATION CENTER (ERIC)
This document has been reproduced as received from the person or organization originating it.
Minor changes have been made to improve reproduction quality.
• Points of view or opinions stated in this document do not necessarily represent official NIE position or policy.

"PERMISSION TO REPRODUCE THIS MATERIAL HAS BEEN GRANTED BY

N. Flott

TO THE EDUCATIONAL RESOURCES INFORMATION CENTER (ERIC)."

FOREWORD

This research project, "Surveying and Planning for Needed Curriculum and Instructional Material for Health Occupations Exploratory Programs," was conducted at Pittsburg State University with funding through the Kansas State Department of Education, Research Coordinating Unit. Project Director was Catherine Bickle Junge, R.N., M.S., and Student Assistant Clifford D. Stewart, R.T. (R). The goal of the project was to gather information related to the number and types of secondary health occupations education programs and the availability of curriculum and instructional material related to these programs. The information and materials developed in the project are available for persons interested in planning, initiating, and developing secondary health occupations exploratory programs. Many persons from many states cooperated in the accumulation of the survey information. State supervisors, teacher educators, and curriculum material specialists were helpful in sharing program descriptions and curriculum materials.

ACKNOWLEDGEMENT

Grateful acknowledgement is made to those who assisted in this project. Technical assistance was contributed by Robert L. Scott, Ph.D., Professor at Kansas State University and Marylyn Hecke, R.N., M.S., Health Occupations Program Specialist, Kansas State Department of Education. Typing and proof-reading were done by Clifford Stewart and Miriam Ide Jones. The support of my patient spouse, Owell L. Junge, is also gratefully recognized.

TABLE OF CONTENTS

Foreword ii
List of Tables iv
Introduction 1
Objectives:
Objective 1 3
Objective 2 11
Objective 3 12
Objective 4 13
Objective 5 15
Objective 6 15
Flow Chart For Development of Instructional Material For Kansas HOE Programs 17
Objective 7 18
Objective 8 22
Summary. 23
Model Program For Kansas Secondary Health Occupations Education 26
Appendix A 27
Appendix B 33
Appendix C 37

LIST OF TABLES

		Page
Table 1	Students, Teachers, and Schools in HOE Programs 1979-80	7
Table 2	Enrollment by Grade in HOE Programs 1979-80	8
Table 3	Other Programs Listed By State Supervisors	8
Table 4	Enrollment in Health Occupations Secondary and Cooperative Programs. Fiscal Year 1978	9
Table 5	Types and Numbers of HOE Programs	10
Table 6	Interest of Kansas Local School Administrators in Secondary HOE Programs	20
Table 7	Interest of Kansas Local School Administrators in Specific HOE Programs	21

INTRODUCTION

Secondary health occupations education programs are nationally on the increase.[1] These programs range from health career exploration to pre-employment laboratory and cooperative. However, curriculum and instructional materials related to these programs are not readily available; in particular, program standards, course outlines, and curriculum guides.

Many of the existing health occupations programs are articulated with post-secondary programs. Continued development is needed in this area since many health career instructional programs are built around a core of knowledge and skills which are applicable to several health careers. A curriculum development project for secondary health occupations should include coordination and cooperation with progams preparing persons as nursing assistants, geriatric assistants, mental health aides, medical assistants, and dental assistants. Consideration should be given to incorporating cooperative education with any recommended program. A 1979 article[2] related to planning vocational programs for disadvantaged youth stresses the importance of combining intensive job skills training with a cooperative component.

The critical need for health care personnel continues. The expanding health career field needs new personnel in addition to replacement personnel in Kansas. The Kansas Department of Labor lists thirteen categories of health related professional and technical occupations that are expected to show a "very rapid increase" in the 1980's. Six other categories are pre-

---

[1] Joan M. Birchenall and M.E. Streight, Introduction to Health Careers, J.B. Lippincott Company, 1978, p. 23.

[2] Gene Bottoms, "A Youth Bill With Lasting Results," VocEd, 54:7, October, 1979.

dicted to show "rapid increase" or "moderate increase".[3] The Kansas Vocational Education Annual Plan for Fiscal Year 1981 states, "A growing aging population and expanding medical programs coverage will encourage expansion in the health service industry and in related occupations."[4] These sources all indicate that the need for persons prepared to serve as health care personnel will continue during the 1980's.

The interest level of Kansas secondary students in a health career is difficult to determine. At the present time there is no state-wide program of career development which will yield this type of information. The Exploring Division, of the Boy Scouts of America, conducts Career Interest Surveys in a number of Kansas high schools but does not keep state-wide records of the results. Information received from Wichita, Topeka, Hutchinson, and Kansas City, Kansas, did reveal that in these communities, the interest in health careers ranged from 10.5 percent to 14.6 percent. In view of the need for health care personnel and the apparent interest of Kansas students in a health career, there appeared to be a need to gather and disseminate information regarding successful secondary health occupations education programs in other states and the types of programs which will best meet the needs of Kansas students and communities.

In the school year 1980-81 there were six units of secondary health occupations education in Kansas: five health career exploratory and one health occupations cooperative program. There are few state-wide guidelines available to assist instructors and administrators of these programs

---

[3]Kansas Department of Labor, Employment Security Division, Research and Analysis Department, Kansas Occupational Outlook--1980 (Topeka: Kansas Department of Labor 1980), Table 2.

[4]Kansas State Department of Education, Kansas Vocational Education Annual Plan for Fiscal Year 1981, (Topeka: Kansas State Department of Education, 1980), VI -2.

or to assist other school administrators interested in initiating a secondary health occupations program. Information was needed regarding the instructional materials needed for these programs and plans formulated to meet those identified needs for curriculum and instructional material.

The major goal of this project was to gather information related to the number and types of secondary health occupations education programs and the availability of curriculum and instructional material related to these programs. Specific objectives are listed below.

1. Survey other state departments of vocational education regarding the number and type of secondary health occupations programs.
2. Survey instructors of Kansas health occupations programs regarding the need for curriculum and instructional material.
3. Initiate a national search for curriculum and instructional material related to secondary health occupations programs.
4. Formulate a bibliography of the available material.
5. Distribute bibliography to on-going Kansas health occupations programs.
6. Establish guidelines for development of curriculum and instructional material to supply documented needs for Kansas health occupations programs.
7. Survey administrators of Kansas USD's and AVTS's regarding interest in initiating health careers programs in the local community.
8. Provide inservice training on the use of curriculum material upon request.

The extent to which these objectives were met in the project are described below.

OBJECTIVE 1 Survey other state departments of vocational education regarding the number and type of secondary health occupations programs.

Each state receiving federal funds for vocational education is required to have a state board for vocational education and responsible state agencies for the administration of all vocational education acts. These agencies are the cooperative partners of the federal agency for administration of vocational education. Under this cooperative procedure

all state boards must have in their employ a staff of administrators, supervisors, specialists, and clerical and fiscal workers to carry on the work authorized by the state boards.[5] The first state supervisors were in the fields of agriculture, homemaking, and trade and industrial education. At this present time most states and territories have in addition to supervisors, or program specialists in these areas, supervisors in business and office, distributive education, special education, and health. It was to the designated state supervisors of health occupations education in each state that the survey questionnaires were addressed. A list of these names was obtained from the U.S. Department of Education, Vocational and Adult Education.

Questionnaire 1 and Letter 1 (see Appendix A) were sent out on October 1, 1980 to fifty-four Health Occupations Education Supervisors. Twenty-nine replies were received from the states and territories surveyed. Many of the replies to this survey were difficult to tabulate and several respondents expressed confusion as to the type of information requested. Only sixteen of the twenty-nine replies to Questionnaire 1 were usable.

Therefore, Questionnaire 2 (see Appendix A) was prepared and sent out on May 4, 1981. This survey was sent to thirty-eight state supervisors along with transmittal Letters 2 and 3 (see Appendix A). Transmittal letters differed according to previous replies. If no reply had been received, Letter 2 was sent. If the information was incomplete or unusable, Letter 3 was sent. Nineteen replies were received from the second questionnaire. As of June 15, 1981, a total of thirty-five replies with usable information

---

[5]Layton S. Hawkins, Charles A. Prosser, John C. Wright, Development of Vocational Education, (Chicago: American Technical Society, 1951), p. 181.

had been received. From June 18 through June 22, 1981 personal telephone calls were made to the non-respondents. As a result, eleven additional replies were received for a total of forty-six usable replies, for an eighty-five percent return rate. Many problems became apparent as the survey results were received. The major problems are listed below.

1. There is a lack of uniformity in the titles of health occupations courses except for those leading to specific careers, e.g., nursing assistant, practical nursing, dental assistant. Some of the terms used are: Health Service Careers, Health Career Exploration, Health Occupations Exploration, Health Occupations Orientation, Health Cluster, Health Service Aide, Diversified Health Occupations, and Health Assistant.

2. There is a wide variation in curricula, length of courses, and laboratory and/or clinical experiences.

3. There is a lack of information regarding the number of students in each grade level.

4. There are incomplete break-downs in data regarding local education units, e.g., several schools may send students to an area vocational school for a single program with one teacher.

5. There is a wide variation in the location of vocational health occupations education units. In some states the majority of programs are located in area vocational technical schools (AVTSs), in others they are in comprehensive high schools, and in some states programs are located in both AVTSs and high schools.

6. In many states there are no established guidelines or program standards at the secondary level other than those prepared for specific occupations.

A few states have established high schools exclusively for health careers. The Clara Barton High School in New York City is operated to help students prepare for careers as health care personnel. Weston, 1974, described the programs at the Houston High School for the Health Professions.[6] An article by Brahinsky and Stapp describes the organization of the Dallas, Texas High School for Health Professions[7] and a brochure produced by the

---

[6]Perry E. Weston, "High School for Health Professions in Houston, Texas," Career Education Digest, 2,3: 13-16, Dec., 1974.

[7]Muriel Brahinsky and Betty Stapp, "Health Career Training in High School: The Magnet Concept," Journal of School Health, 80, January, 1981.

Dallas school district describes the offerings in this school.[8] Programs at the Dallas high school are for students in grades 9-12. The six program clusters listed below are offered to provide a foundation in the student's area of interest.

Introduction to Health Careers (9th grade only)
Dental Technology (grades 10,11, or 12)
Dental Assisting (grades 10,11, or 12)
Medical Laboratory (grades 10,11, or 12)
Patient Care Services (grades 11 and 12 only)
Health Occupations Internship, paid and unpaid (grade 12 only)

Considering the problems previously listed, the best strategy appeared to be to compile the information received into five different tables. This enabled the researcher to use the minimum amount of information received from all sources and to use more information from those states which supplied additional details. Table 1, containing equivalents, the number of school districts or AVTS's, and the total number of students enrolled in Health Occupations Education programs in grades 9-12. Table 2, contains information from Questions 4-7, indicates the number of students at each grade level according to the states which submitted this information. Table 3 contains Other Programs listed by state supervisors. Table 4 contains the cumulative totals listed by the U.S. Department of Education for FY 1978. Inclusion of material in this table permits a comparison of the increase or decrease in the number of students in the different states and territories between 1978 and 1980. Table 5, containing information from Question 8, indicates the number and types of programs in states which submitted this information. All of the totals in tables 1,2, and 5 are for the school year 1979-80 (FY 1980).

---

[8]Dallas Independent School Dsitrict, "High School for Health Professions," (Dallas: Dallas Independent School District, 1975).

TABLE 1

STUDENTS, TEACHERS, & SCHOOLS IN HOE PROGRAMS, 1979-80

STATE	TOTAL # OF STUDENTS IN HOEP	# OF FULL-TIME TEACHERS IN HOEP	# OF SCHOOL DISTRICTS OR AVTSs WITH HOEP
Alabama	2,400	60	50
Alaska	115	4	3
Arizona	650	25	18
Arkansas	1,000	28	19
California	10,379	-	-
Colorado	706	40	62
Connecticut	1,279	48	17
District of Col.	398	-	-
Florida	6,709	126	175
Hawaii	0	0	0
Idaho	160	12	10
Illinois	6,000	1,398*	121
Indiana	2,200	64	37
Iowa	554	22	88
Kansas	336	8	[illegible]
Kentucky	1,255	-	21
Louisiana	3,176	50	21
Maryland	2,546	-	57
Massachusetts	2,495	105	105
Michigan	9,600	210	-
Mississippi	45	2	2
Missouri	1,076	57	57
Montana	55	2	-
Nebraska	496	10	11
Nevada	105	6	3
New Hampshire	357	16	16
New Jersey	3,005	98	51
New Mexico	200	24	14
New York	19,861	500	180
North Carolina	7,887	320	94
North Dakota	601	15	24
Ohio	3,334	185	-
Oklahoma	873	43	37
Oregon	662	11	20
Rhode Island	305	3	3
South Dakota	274	7	10
Tennessee	4,124	90	85
Texas	-	185	-
Utah	5,840	150	150
Vermont	256	16	14
Washington	751	75	43
West Virginia	1,009	30	15
Wisconsin	204	15	33
Wyoming	225	21	19
Puerto Rico	601	53	16
Virgin Islands	33	4	4
TOTALS	104,137	4,138	1,714

*May include part-time

TABLE 2

ENROLLMENT BY GRADE IN HOE PROGRAMS
1979-80

STATE	9th Grade	10th Grade	11th Grade	12th Grade
Alaska	34	13	24	44
Arkansas	-	200	400	400
Colorado	-	12	98	596
Connecticut	4	33	510	732
Florida	3,129	1,543	1,135	902
Idaho	-	-	-	160
Indiana	200	200	600	1,200
Kansas	-	-	-	366
Maryland	-	-	1,938	608
Mississippi	-	-	-	45
New Hampshire	-	-	235	102
New Mexico	-	20	100	80
North Carolina	-	785	4,165	2,937
North Dakota	-	-	254	347
Oklahoma	-	13	321	539
Oregon	2	20	235	405
South Dakota	-	-	-	274
Utah	-	-	2,400	3,440
West Virginia	-	30	312	667
Wisconsin	-	-	39	165
Wyoming	-	70	-	-
Puerto Rico	-	224	193	184
Virgin Islands	-	3	19	11
TOTAL	3,369	3,166	12,978	14,204

TABLE 3

OTHER PROGRAMS LISTED BY STATE SUPERVISORS

Combination Health Careers and Cooperative - Texas
Crown and Bridge Technician - Oklahoma
Dental Laboratory Technician - Maryland, New York, Oklahoma, Texas, Indiana
Environmental Health Technician - Texas
Home Health Aide - New York
Medical Transcriptionist - Indiana
Optometric Aide - Colorado
Pharmacy Assistant - Puerto Rico
Physical Therapy Aide - Colorado, Virgin Islands
Radiologic Assistant - Virgin Islands
Respiratory Therapy Aide - Colorado, Indiana
Sports Medicine - Indiana
Veterinarian Assistant - Colorado

TABLE 4

ENROLLMENT IN HEALTH OCCUPATIONS

SECONDARY AND COOPERATIVE PROGRAMS. FISCAL YEAR 1978

State	Total	Secondary	Cooperative
Alabama	2,970	2,650	320
Alaska	171	132	39
Arizona	527	450	77
Arkansas	1,437	1,040	397
California	21,051	18,611	2,440
Colorado	955	802	153
Connecticut	1,307	1,307	0
Delaware	1,357	1,292	65
District of Col.	543	271	272
Florida	7,028	4,970	,2,058
Georgia	4,805	4,504	301
Hawaii	0	0	0
Idaho	229	223	6
Illinois	9,851	8,434	1,417
Indiana	2,886	1,875	1,011
Iowa	680	680	0
Kansas	395	378	17
Kentucky	1,780	1,717	63
Louisiana	867	854	13
Maine	825	703	122
Maryland	1,649	1,418	231
Massachusetts	2,641	2,512	129
Michigan	9,820	8,164	1,656
Minnesota	3,685	3,570	115
Mississippi	294	164	130
Missouri	1,861	1,515	346
Montana	52	52	0
Nebraska	483	480	3
Nevada	125	125	0
New Hampshire	452	394	58
New Jersey	4,063	3,765	298
New Mexico	1,117	1,045	72
New York	18,634	18,028	606
North Carolina	6,399	6,070	329
North Dakota	886	765	121
Ohio	5,561	4,301	1,260
Oklahoma	1,243	1,120	123
Oregon	1,518	925	593
Pennsylvania	5,788	5,321	467
Rhode Island	347	347	0
South Carolina	1,413	1,399	14
South Dakota	231	231	0
Tennesse	3,712	3,467	245
Texas	12,362	5,313	7,049
Utah	4,512	4,405	107
Vermont	430	373	57
Virginia	2,785	2,454	331
Washington	1,307	675	632
West Virginia	1,098	1,038	60
Wisconsin	595	560	35
Wyoming	159	159	0
American Samoa	9	0	9
N. Marianas Island	2	1	1
Guam	0	0	0
Puerto Rico	639	592	47
Trust Territory	14	0	14
Virgin Islands	66	66	0
TOTAL	155,816	131,907	23,909

TABLE 5

TYPES AND NUMBERS OF HOE PROGRAMS

	HEALTH CAREER EXPLORATION	HEALTH OCCUPATIONS COOPERATIVE	NURSE AIDE	HEALTH SERVICE AIDE	EMERGENCY MEDICAL TECHNICIAN	HEALTH CAREER ORIENTATION	PRACTICAL NURSE	DENTAL ASSISTANT	MEDICAL LABORATORY AIDE	MEDICAL ASSISTANT	OTHERS
ALASKA	6	-	1	-	1	-	-	+	-	-	-
ARKANSAS	+	+	-	-	-	-	-	-	-	-	-
COLORADO	-	-	24	-	-	-	-	14	6	6	*
CONNECTICUT	-	4	50	-	-	10	-	-	3	-	-
FLORIDA	111	-	4	56	-	-	-	-	4	-	-
IDAHO	8	-	8	-	-	-	-	-	-	-	-
ILLINOIS	-	-	-	-	-	-	6	-	-	-	-
INDIANA	-	-	-	-	-	-	-	4	1	1	*
IOWA	+	3	+	+	-	+	1	-	-	-	-
KANSAS	5	1	3	-	-	-	-	-	-	-	-
KENTUCKY	21	-	-	-	-	-	-	-	-	-	*
MARYLAND	30	-	23	-	-	-	11	1	-	-	-
MISSISSIPPI	-	-	-	2	-	-	-	-	-	-	-
MISSOURI	57	-	-	-	-	-	-	-	-	-	-
MONTANA	1	-	1	-	-	-	-	-	-	-	-
NEBRASKA	8	-	2	-	-	-	-	1	-	-	-
NEVADA	2	-	2	-	-	-	-	-	-	-	-
NEW HAMPSHIRE	16	16	16	-	-	-	-	-	-	-	-
NEW JERSEY	+	+	+	-	-	-	+	+	-	+	-
NEW MEXICO	21	2	-	-	-	-	-	1	-	-	-
NEW YORK	-	-	79	130	11	92	180	45	36	28	*
NORTH CAROLINA	94	-	-	-	-	-	-	-	-	-	-
NORTH DAKOTA	+	-	+	-	-	-	-	-	-	-	-
OKLAHOMA	26	-	-	-	-	-	2	3	-	5	*
OREGON	20	-	-	-	-	-	-	-	-	-	-
RHODE ISLAND	-	-	+	-	-	1	-	-	-	-	-
SOUTH DAKOTA	-	-	10	-	-	-	-	-	-	-	-
TENNESSEE	84	1	-	-	-	-	-	-	-	-	-
TEXAS	7	45	5	6	-	-	1	4	4	2	*
UTAH	135	-	10	-	-	-	1	2	1	-	*
VERMONT	-	-	+	-	-	-	-	+	+	-	-
WASHINGTON	-	2	34	-	-	3	3	4	-	1	-
WEST VIRGINIA	-	-	15	-	-	-	-	4	1	10	-
WISCONSIN	+	+	+	+	-	+	-	+	+	+	-
WYOMING	4	-	15	-	2	-	-	-	-	-	-
PUERTO RICO	-	-	-	+	-	-	+	-	-	+	*
VIRGIN ISLANDS	-	-	1	-	-	-	-	-	1	-	*
TOTALS	656	74	302	194	14	106	204	83	55	53	

* Indicated that programs are present that did not fall into categories listed
\- No information or no programs
\+ Programs operating but no information given on numbers

OBJECTIVE 2 Survey instructors of Kansas health occupations programs regarding the need for curriculum and instructional material.

A report compiled by Luella Lowe, 1980, regarding the need for curriculum and instructional material was reviewed.[9] According to information gathered by Lowe, students were enrolled in three different types of health occupations preparatory programs: Health Careers Exploratory, Health Assistant, and Health Occupations Cooperative. Other programs which had students employed part-time in a health occupation are: Cooperative Industrial Training (CIT) and Combination Cooperative Vocational Education Programs (CCVEP). The Lowe survey was sent to fourteen AVTSs and twenty-six high schools having CIT, CCVEP, or health occupations preparatory programs. Replies were received from thirty-three schools for a 82.5 percent return rate.

The Lowe survey indicated 367 students enrolled in the Health Career Exploratory programs located as follows: Olathe, one; Dodge City, one; and Shawnee Mission, three. Thirty students were in the Health Assistant program in Kansas City. The Health Occupations Cooperative was located in Lawrence. Students enrolled in CIT or CCVEP programs were employed in the health occupations listed below.

Nursing Assistant	20
Dietary Aide	8
Dental Assistant	5
Geriatric Aide	8
Medication Aide	10
Medical Assistant	1
Housekeeping Aide	2
Medical Laboratory Assistant	1
X-Ray Technician Assistant	1

Lowe inquired about the availability of health occupations educational materials. Nine of the fourteen instructors replied that they had adequate

---

[9] Luella M. Lowe, "Need Survey for Health Occupations Programs in Secondary Level Education," (Pittsburg: Pittsburg State University, Department of Vocational Technical Education, 1980).

material. Those stating that they did not have adequate materials asked for better program guides and "good reference books and periodicals." Seven of the schools surveyed indicated an interest in organizing a health occupations preparatory program. Lowe concluded, "This survey indicates, within the state of Kansas, an interest in the development of educational programs in the area of health occupations on the secondary level."[10] Lowe also concluded that there is a need for health care personnel at the aide and assistant level to allow licensed or certified personnel to perform tasks for which they were trained. Lowe recommended the development of a state-wide curriculum guide for Kansas secondary health occupations programs. The guide should be based on the vocational competencies and terminal behaviors related to the occupations for which the students are preparing.[11]

OBJECTIVE 3 Initiate a national search for curriculum and instructional material related to secondary health occupations programs.

A computerized literature search was made using the topic "Secondary Health Occupations Curriculum." The researcher used the Educational Resource Information Center (ERIC) files using the descriptors: secondary health occupations and health occupations education. A search was also made through the MEDLAR system using the descriptors: health education, vocational guidance, and vocational education. Health occupations supervisors in each state department of education were also requested to provide copies of the program standards and/or curriculum guides used in their states.

Published material containing comprehensive descriptions of secondary health occupations programs in the United States and it's territories is practically non-existant. However, there have been many publications by

---

[10] Ibid.

[11] Ibid.

both public and private sources since this investigator conducted a search in 1975.[12] A number of states have developed program standards and curriculum material for health career exploratory and skill development programs. High school programs are described that offer indepth exploration and entry-level skill development. A small number of programs have been designed to encourage minority and disadvantaged students to select health careers. All of the information received was reviewed and those items which were considered to be of value for the planning and developing of secondary health occupations programs were compiled into the bibliography described under Objective 4.

OBJECTIVE 4 Formulate a bibliography of the available material.

Using the information received through the activities listed under Objective 3, a bibliography of resources and materials available in the United States was compiled. The bibliography is not totally inclusive and is not an endorsement of any of the materials or resources as "preferred or recommended." The bibliography contains a listing of materials and resources that the project personnel were able to review, locate, or confirm. The bibliography is divided into the five section listed below.

Health Occupations Program Standards
Health Occupations Curriculum Guides
General Information Related to Health Career Programs
Health Occupations Material From Educational Resource Information Centers
Additional Sources of Health Occupations Materials

The Health Occupations Program Standards are official guides prepared by the state departments of education in those states having secondary health occupations programs. These standards are useful for program planners, administrators, and instructors planning and implementing health

---

[12] Catherine Junge, "Development and Validation of the Instructional Module, Orientation to the Health Care Delivery System," (Denton: Texas Woman's University, The School of Health Care Services, 1976).

occupations programs in the local education unit.

The Health Occupations Curriculum Guides are comprehensive curriculum guides containing performance objectives, references, learning activities, lesson outlines, transparency masters, evaluation instruments, and other instructional material. These guides are useful for the classroom and laboratory instructor in a health occupations program planning and conducting learning activites for students in the program. The curriculum guides were prepared by local schools, state curriculum centers, and state departments of education.

The listings under General Information Related to Health Careers Programs contain information useful to persons involved in planning and conducting health careers education programs. Items listed in this section will be helpful in bridging the gap between health career awareness programs at the kindergarten through sixth grade level and the skill development health occupations programs for grades 10, 11, and 12.

The listings under the heading Health Occupations Material From Educational Resources Information Centers contains material useful for persons conducting research in health occupations education. These document were judged by the research staff to be available for review but not in a form that would be most useful for the local classroom teacher or school administrator.

The bibliography section listing Additional Sources of Health Occupations Materials contains the names and addresses of publishers of instructional material useful for classroom teachers implementing programs of health careers or health occupations education. A brief note is inserted beside each listing giving either the title of the available material or the information that the publisher has a catalog listing the available materials.

The research staff has chosen not to list curriculum material available for specific health occupations. This information can be obtained by writing for the catalogs listed in section five. As noted earlier, the amount of curriculum and instructional material from both public and private sources has increased tremendously during the past five years.

OBJECTIVE 5 Distribute bibliography to on-going Kansas health occupations programs.

The "Selected Bibliography For Secondary Health Occupations Education" was distributed to the instructors of Kansas secondary health occupations programs during the 1981 Summer Health Occupations Educators Inservice Workshop.

OBJECTIVE 6 Establish guidelines for development of curriculum and instructional material to supply documented needs for Kansas health occupations programs.

The guidelines and standards for other state health occupations education programs were reviewed during the process of this research project. This review led to the following conclusions.

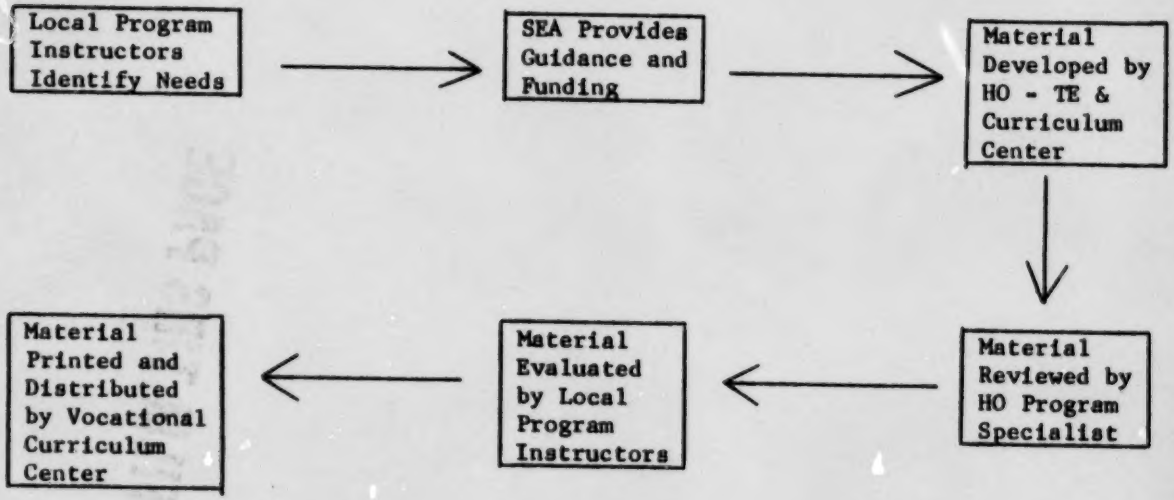
The development, publication, and distribution of curriculum and instructional material is time consuming and expensive. The cost of development is more than most local school districts can afford. Therefore, curriculum development should be a joint effort between local schools, state departments of education, and curriculum development centers. Local instructors should be involved in the planning, development, and evaluation of the material to insure that the material is relevant and usable at the level of the student population. State education agencies (SEAs) should be involved in coordinating, funding, and disseminating curricular material. The SEA has the responsibility for ascertaining that adequate instructional material is available for those vocational education programs receiving state funds. The SEA also has the responsibility to provide inservice

education for program instructors and supervisors related to the specific funded programs. The SEA also acts as the controlling agency for federal funds allocated for research and curriculum development. However, the SEA does not have the resources to provide continuous production and distribution of instructional material.

Curriculum development centers have the resources and the capabilities to develop and distribute instructional material for vocational education programs. A national network for curriculum development has been established, The National Network for Curriculum in Vocational and Technical Education. There are also six regional networks. In addition each state has a person or group designated to provide for the state's curriculum development services.

In light of the findings listed above it appears that any curricular material developed for Kansas secondary health occupations programs should be a joint effort between the local program instructors, the state program specialist, the health occupations teacher educator, and the state vocational curriculum center. Periodic surveys of the local program instructors will identify the needs for instructional material. The SEA, through the health occupations program specialist and the research coordinating unit, can provide guidance and funding for the development of the needed materials. The teacher educator in cooperation with the vocational curriculum center can arrange for development, evaluation, and dissemination of the curriculum materials, as well as provide inservice programs for teachers in the use of the materials. A Flow Chart For Development of Instructional Material For Kansas HOE Progams follows.

FLOW CHART FOR DEVELOPMENT OF INSTRUCTIONAL MATERIAL FOR KANSAS HOE PROGAMS


Local Program Instructors Identify Needs
SEA Provides Guidance and Funding
Material Developed by HO - TE & Curriculum Center
Material Reviewed by HO Program Specialist
Material Evaluated by Local Program Instructors
Material Printed and Distributed by Vocational Curriculum Center

OBJECTIVE 7 Survey administrators of Kansas USDs and AVTSs regarding the interest in initiating health careers programs in the local community.

In May 1981 survey questionnaires were sent to all Kansas public high schools with 300 or more students enrolled in grades 9-12, to the fourteen Kansas Area Vocational Technical Schools (AVTS), and to the Vocational Directors of the Unified School Districts (USD). It was determined by referring to the directories of Kansas hospitals and nursing homes that there was at least one hospital or nursing home in the counties in which these schools were located. A total of 138 questionnaires were mailed. Copies of the questionnaire and transmittal letter are included in Appendix B. A second questionnaire and letter were mailed to the non-respondents on June 8, 1981. (See Appendix B) Ninety-eight replies were received for an over-all return rate of seventy-one percent. The findings from this survey are found in Table 6 and Table 7. For tabulation purposes the responses were divided into five categories:

1. High Schools with a student population of 300-499.
2. High Schools with a student population of 500-999.
3. High Schools with a student population of 1000-1499.
4. High Schools with a student population of over 1500.
5. AVTS Directors and Vocational Education Directors in Unified School Districts.

A majority of those replying, 57:34, agreed that "There is a need for additional health care personnel in the local area served by this school district." The answers differed between the smaller schools in categories 1 and 2 and the larger schools in categories 3, 4, and 5. In the smaller schools the answer to Question 1 was twenty-seven "yes" and twenty-nine "no". Replies from schools in categories 3, 4, and 5 were overwhelmingly positive in their answers with thirty "yes" and five "no". It is possible to assume that either the shortage of health care personnel was less acute in the smaller school districts or that the school administrators were less aware of the shortage.

A majority of the replies, forty-nine, stated that "There has been a Career Interest Survey conducted in the local high school within the past two years." These surveys were conducted mostly by the local schools, thirty, or by the Exploring Division of Boy Scouts, nineteen. Other surveys cited were: ITED Test, National Guard, Marymount College, and OVIS. The percentage of students participating in the survey who expressed an interest in the health field varied from three percent to thirty-three percent. There did not appear to be any great differences in the replies related to the size of the schools.

Twenty-five of the ninety-five replying to the survey indicated that "There is at this time a health occupations program for high school students at the local school." Respondents were not asked to describe these programs. Since only five programs in the state receive vocational education funds, there is no information available to the researcher to describe the parameters of the remaining twenty programs.

Only twenty-seven of the eighty-four replies indicated that "yes", "There is interest in organizing a secondary health occupations program at the local high school or AVTS." Replies differed from the smaller schools in categories 1 and 2 to the larger schools represented by categories 3, 4, and 5. Replies from the smaller schools were eleven "yes" and forty-five "no". Administrators of the larger schools replied six "yes" and nine "no". The vocational education directors and directors of AVTSs replied ten "yes" and three "no". There were several comments related to this question.

Question 7 stated, "If the answer to #6 was 'yes', indicate below the type of program desired." The majority of those replying favored a "One semester, Health Career Exploration program at grades 9, 10, and 11,"

TABLE 6

INTEREST OF KANSAS LOCAL SCHOOL ADMINISTRATORS IN SECONDARY HOE PROGRAMS

QUESTION	CATEGORY 1 300-499 38/54-70.3%			CATEGORY 2 500-999 21/33-63.6%			CATEGORY 3 1000-1499 12/20-60%			CATEGORY 4 1500 & up 9/11-81.8%			CATEGORY 5 AVTS & USD VOC. DIRECTORS 16/20-80%			TOTAL 96/138-69.5%		
	Replies	Yes	No	Replies	Yes	No	Replies	Yes	No	Replies	Yes	No	Replies	Yes	No	Replies	Yes	No
1. There is a need for additional health care personnel in the local area served by this school district.	36	17	19	20	10	10	11	10	1	9	6	3	15	14	1	91	57	34
2. There has been a Career Interest Survey conducted in the local high school within the past two years.	38	19	19	21	8	13	12	8	4	9	6	3	11	8	3	91	49	42
3. If "yes" to #2, what percentage of students answering the survey expressed an interest in the health field.	11	Range 3-33%		4	Range 5-8%		5	Range 3-20%		3	Range 13-23%		3	Range 9-22%		26	Range 3-33%	
4. The survey was conducted by:	19			8			8			6			9			50		
Explorer Scouts:		6			2			6			3			2			19	
Local School:		11			5			2			4			8			30	
Other:		2			1			1			1			0			5	
5. There is at this time a health occupations program for high school students at the local school.	38	Yes 5	No 33	21	Yes 5	No 16	12	Yes 2	No 10	9	Yes 7	No 2	15	Yes 6	No 9	95	Yes 25	No 70
6. There is interest in organizing a secondary health occupations program at the local high school (or AVTS).	36	8	28	20	3	17	11	5	6	4	1	3	13	10	3	84	27	57

TABLE 7

INTEREST OF KANSAS LOCAL SCHOOL ADMINISTRATORS IN SPECIFIC HOE PROGRAMS

TYPE OF HOE PROGRAMS SHOWN INTEREST	CATEGORY 1 300-499	CATEGORY 2 500-999	CATEGORY 3 1000-1499	CATEGORY 4 1500 & up	CATEGORY 5 AVTS & USD VOCATIONAL DIRECTORS	TOTAL
One semester, Health Career Exploration at grades 9, 10, or 11.	6	1	1	1	1	10
Two semesters, two hours a day Health Career Exploration with student experiences in "shadowing" health care personnel in hospitals, laboratories, clinics, etc.	0	1	0	0	1	2
One year, three hours a day career preparation progam in one occupation.	2	1	3	0	2	8
Nursing Assistant	1	0	2	0	1	4
Geriatric Aide	0	0	0	0	1	1
Dental Assistant	1	0	0	0	0	1
Other	0	1 LPN	0	0	0	1
One to two years, three hours a day Health Occupations Cooperative with students employed (for pay) as part-time health care personnel in hospitals, clinics, laboratories, etc.	1	0	3	0	3	7
Two year Combination Program with one year Health Career Exploration and one year Health Career Preparation.	1	0	0	0	1	2
Two year Combination Program with one year Health Career Exploration and one year Health Occupations Cooperative.	0	0	0	0	1	1
Other	0	0	0	0	1	1

ten. The other two categories receiving more than one vote were: "One year, three hours a day career preparation program in one occupation," seven; and "One to two years, three hours a day Health Occupations Cooperative with student employed, for pay, as part-time health care personnel in hospitals, clinics, laboratories, etc.," seven. Occupations cited for the three hours a day career preparation program were; Nursing Assistant, four; Geriatric Aide, two; Dental Assistant, one; and Licensed Practical Nursing, one. There were several comments related to the questionnaire in general.

OBJECTIVE 8 Provide inservice training on use of the curriculum material upon request.

A number of reference items useful to instructors and administrators were identified and catalogued. These items are listed in a bibliography, Appendix C. This reference material and the findings of this research study were presented at the 1981 Health Occupations Teacher Educators Inservice Workshop, August 10 & 11, in Wichita, Kansas.

SUMMARY

This research project was designed and implemented to gather information relating to the need for curriculum and instructional material for programs of secondary health occupations education in Kansas. Information was gathered from other states and territories conducting secondary health occupations education programs. The information gathered did not include detailed descriptions of the programs. Further research studies are needed to gather the additional information to compile a detailed description of the various state programs. This research study provided only the initial information.

It was possible from this research study to identify grade levels at which health career exploration and skill development programs were located in a number of states. Exact enrollment figures were very difficult to obtain. In most states enrollment figures are not broken down by grade levels. There appeared to be some states, e.g. Florida, a progression of health occupations programs. Beginning with health career orientation and exploration programs in grades nine and ten to skill development programs in grades eleven and twelve. In this study no attempt was made to ascertain if any of these programs at grade twelve were articulated with post-secondary (credit) or adult (non-credit) programs. Several state supervisors were very cooperative in sharing their program standards and curriculum guides.

With incomplete figures it is impossible to compare FY 1980 enrollment figures with those of FY 1978. There appears to be a decrease in enrollment from 155,816 in FY 1978 to 104,137 in FY 1980 for a decrease of 51,679, or 33 percent. It appears that the growth in the number of

programs and program enrollment has not kept up with the demand for health care personnel.

One aspect of the secondary programs that was not studied but that may have a bearing on future enrollment is the growth of the vocational student organization, Health Occupations Students of America (HOSA). HOSA was organized on a national level in 1976 and has grown from a membership of 12,000 in 1976 to 25,000 in 1980-81. The growth and vitality of HOSA may serve to stimulate the growth of secondary health occupations programs.

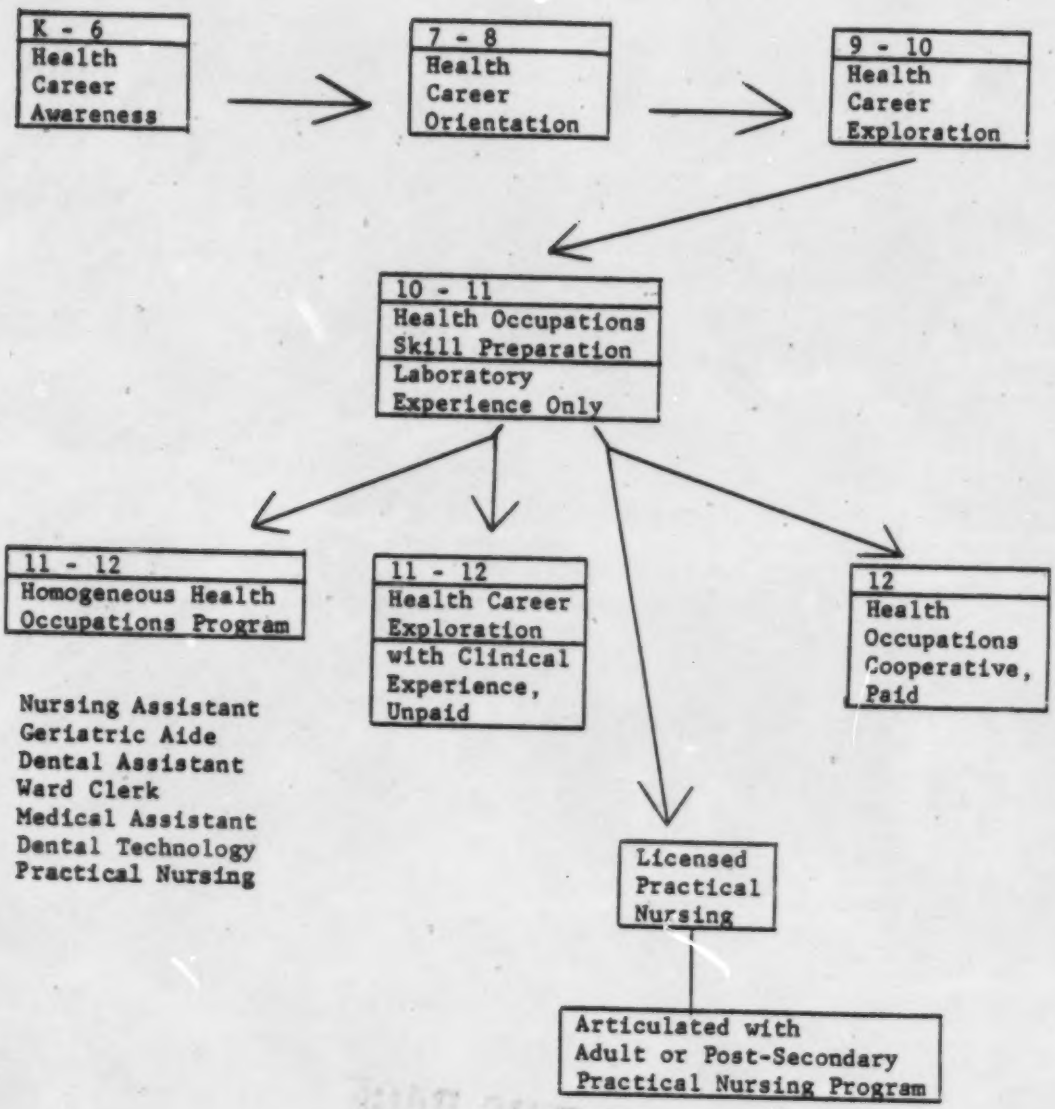
In Kansas there appears to be limited interest in expanding the number of secondary health occupations programs. There is more interest from the larger high schools, vocational directors, and directors of AVTS's than the smaller school administrators. Of those expressing an interest in organizing programs, the majority favored beginning with a one semester Health Career Exploration program offered at grades ten, eleven, and twelve. This program could be tied with career education in the earlier grades: Health Career Orientation at grades seven and eight and Health Career Awareness from kindergarten through grade six. The Health Career Exploration program can prepare students to make a choice between entering a two to three hour a day Health Occupations pre-employment laboratory program or a HOE Cooperative Program. In larger communities students may also have the option of entering more advanced training such as practical nursing. This program may be completed within the high school years by extending the time from one to two years or may be articulated with an adult or post-secondary practical nursing program. See the following "Model Program For Kansas Secondary Health Occupations Education" for a flow chart depicting the

student options. This pattern of program sequencing is following in many of the states surveyed during this project.

There is a continuing need for additional health care personnel at all levels. If this need is to be met, more students must be aware at an early age of the numerous possibilities for a satisfying career in the health care delivery system. Health Career Awareness and Orientation programs must be linked to Health Career Exploration and Health Occupations Skill Development programs if the educational system is to meet the needs of society for well trained health care personnel.

DO NOT FILM THIS PAGE

MODEL PROGRAM FOR KANSAS SECONDARY
HEALTH OCCUPATIONS EDUCATION



APPENDIX A

DO NOT FILM THIS PAGE

Letter 1

PITTSBURG STATE UNIVERSITY
VOCATIONAL – TECHNICAL EDUCATION
316-231-7000, Ext. 398
PITTSBURG, KANSAS 66762

To: State Supervisors, Health Occupations
State Departments of Education

From: Catherine Junge, Health Occupations cJ.
Teacher Educator
Pittsburg State University

October 1, 1980

I am in the process of compiling information regarding secondary programs for health occupations education in all of the states and territories. Information is needed regarding types of programs as well as enrollment by grades. The attached questionnaire will provide the information needed on program enrollment. The sheet containing the questionnaire on program enrollment is designed to be used as a return mailer. Your cooperation in this matter will be greatly appreciated. Please use the most current information available.

I would also like copies of the state adopted program standards, program guides, and/or handbooks for the approved programs. These may be mailed under separate cover.

Which of these programs do you consider outstanding?

Thank you for your prompt consideration of this matter.

QUESTIONNAIRE
ENROLLMENT IN SECONDARY HEALTH OCCUPATIONS EDUCATION PROGRAMS

STATE OR TERRITORY _____ YEAR _____

SOURCE OF INFORMATION _____
Name Position

_____
Mailing Address

YES NO There are approved programs of secondary health occupations education in this state or territory.

If the answer to the above question is "yes", please fill out the information below.

PROGRAMS	Local Educ. Units	9th grade		10th grade		11th grade		12th grade	
		Teacher Units	Student Enrollment	Teacher Units	Student Enrollment	Teacher Units	Student Enrollment	Teacher Units	Student Enrollment
Health Career Exploration									
Pre-employment Laboratory (list by type of program)									
Nursing Assistant									
Dental Assistant									
Medical Laboratory Aide									
Practical Nursing									
Others									
Type of Clinical Experience									
Shadowing									
Clinical Rotation (unpaid)									
Cooperative (paid)									
Disadvantaged									
Handicapped									
Additional									

Letter 2

PITTSBURG STATE UNIVERSITY
VOCATIONAL – TECHNICAL EDUCATION
316-231-7000, Ext. 398
PITTSBURG, KANSAS 66762

To: State Supervisors, Health Occupations
State Departments of Education

From: Catherine Junge
Health Occupations Teacher Educator
Pittsburg State University

May 4, 1981

Our efforts to compile information regarding secondary health occupations programs continues. We would not want to make the final report and leave out the programs from your state.

A few persons responding to our first questionnaire were confused by some of the categories and/or terminology. To reduce this problem we are enclosing a follow-up questionnaire, which may be clearer and simpler to complete. The questionnaire is designed to be used as a return mailer.

Thank you for taking a few minutes of your valuable time to complete this questionnaire.

PLEASE RETURN QUESTIONNAIRE BY JUNE 1, 1981

Letter 3

PITTSBURG STATE UNIVERSITY
VOCATIONAL – TECHNICAL EDUCATION
316-231-7000, Ext. 398
PITTSBURG, KANSAS 66762

To: State Supervisors, Health Occupations
State Departments of Education

From: Catherine Junge
Health Occupations Teacher Educator
Pittsburg State University

May 4, 1981

Thank you for your reply to our questionnaire of October 1, 1980.

We have enclosed a follow-up questionnaire to obtain additional specific information needed to complete our study. The questionnaire is designed to be used as a return mailer.

Thank you for your prompt reply.

PLEASE RETURN QUESTIONNAIRE BY JUNE 1, 1981

QUESTIONNAIRE 2

Please use 1979 - 1980 enrollment figures that are reported to the United States Department of Education.

1. _____ Number of Full-time teacher equivalents teaching health occupations. Grades 9 thru 12.

2. _____ Number of school districts or area vocational technical schools which have health occupations programs.

3. _____ Total number of students enrolled in Health Occupations Education Programs (HOEP). Grades 9 thru 12.

4. _____ Number of students in HOEP. Grade 9.

5. _____ Number of students in HOEP. Grade 10.

6. _____ Number of students in HOEP. Grade 11.

7. _____ Number of students in HOEP. Grade 12.

8. Mark the phrase(s) which describes the programs in your state and give the number of each type.

_____ Health Career Exploratory

_____ Health Occupations Cooperatives

_____ Nurse Aide or Orderly

_____ Health Service Aide

_____ Emergency Medical Technician

_____ Other _____

_____ Health Career Orientation

_____ Practical Nursing

_____ Dental Assistant

_____ Medical Laboratory Aide

_____ Medical Assistant (physician's office assistant)

_____ Other _____

Since the community needs and therefore program offerings differ from the metropolitan areas to the non-metropolitan areas, your expert opinion is requested in designating two outstanding programs in your state, one in a metropolitan area; one in a non-metropolitan area.

Which program(s) in your state do you consider to be "Outstanding"?

Metropolitan

Program _____

School _____

Address _____

City _____ Zip _____

Instructor/Coordinator _____

Non-Metropolitan

Program _____

School _____

Address _____

City _____ Zip _____

Instructor/Coordinator _____

DESIGNED AS A RETURN MAILER

PLEASE RETURN BY JUNE 1, 1981

APPENDIX B

Letter 1

PITTSBURG STATE UNIVERSITY
VOCATIONAL – TECHNICAL EDUCATION
316-231-7000, Ext. 398
PITTSBURG, KANSAS 66762

To: Administrator Addressed

From: Catherine Junge, Teacher Educator, PSU
Marylyn Hecke, Specialist, Health Occupations, KSDE

Date: May 11, 1981

Pittsburg State University in cooperation with the Kansas State Department of Education is conducting a research project relating to the need for and interest in secondary health occupations programs for career exploration and/or career preparation. These programs from grades 9-12 are eligible for vocational education funding if the long-term goal is preparation for entry-level employment in the health care field.

Health Occupations programs can vary in the time required from a one semester class - one hour per day, five days a week, to a two semester class - three hours per day, five days a week. As a local secondary administrator, you are in a position to evaluate the needs of the local community in which your schools are located, and the interest of your students in preparing for a career as a health care provider.

Answers to the few brief questions on the next page will help tremendously in future program planning for secondary health occupations programs in Kansas. The questionnaire is designed as a return mailer and is postage paid.

Answers on this survey do not represent a commitment on your part to initiate any of the program listed. The survey is for planning purposes only.

This survey does not represent a commitment on the part of the Kansas State Department of Education to establish new programs at this time. The survey is for planning purposes only.

Your prompt attention to this matter is appreciated.

PLEASE RETURN QUESTIONNAIRE BY JUNE 1, 1981

QUESTIONNAIRE

YES NO

____ ____ 1. There is a need for additional health care personnel in the local area served by this school district.

____ ____ 2. There has been a Career Interest Survey conducted in the local high school within the past two years.

3. If "yes" to #2, what percentage of students answering the survey expressed an interest in the health field (physician,dentist,nurse,etc.) _____

4. The survey was conducted by:

____ Explorer Scouts ____ Local School

____ Other _____

____ ____ 5. There is at this time a health occupations program for high school students at the local school.

____ ____ 6. There is interest in organizing a secondary health occupations program at the local high school (or AVTS).

7. If the answer to #6 was "yes" indicate below the type of program desired.

____ One semester, Health Career Exploration at grades 9,10, or 11.

____ Two semesters, two hours a day Health Career Exploration with student experiences in "shadowing" health care personnel in hospitals, laboratories, clinics, etc.

____ One year, three hours a day career preparation program in one occupation.

____ Nursing Assistant ____ Dental Assistant

____ Geriatric Aide ____ Other _____

____ One to two years, three hours a day Health Occupations Cooperative with students employed (for pay) as part-time health care personnel in hospitals, clinics, laboratories, etc.

____ Two year Combination Program with one year Health Career Exploration and one year Health Career Preparation.

____ Two year Combination Program with one year Health Career Exploration and one year Health Occupations Cooperative.

____ Other: _____

Completed by:

Name _____ Position _____

School _____ Address _____

Date _____ City _____ Zip _____

POSTAGE PAID RETURN MAILER

PLEASE RETURN BY JUNE 1, 1981

Letter 2

PITTSBURG STATE UNIVERSITY
VOCATIONAL – TECHNICAL EDUCATION
316-231-7000, Ext. 398
PITTSBURG, KANSAS 66762

To: Principal or Director

From: Catherine Junge, Teacher Educator, PSU
Marylyn Hecke, Specialist, Health Occupations, KSDE

Date: June 8, 1981

Several weeks ago you received a questionnaire asking for information relating to the need for secondary health occupations programs in Kansas. At this time we have not received your reply to this questionnaire. We realize that your time is limited but a few minutes of your time would contribute greatly to information needed for future program planning.

In the event the previous correspondence has been misplaced we are sending an additional copy of the cover letter and questionnaire. The questionnaire is designed as a return mailer and is postage paid.

Your cooperation in responding to this brief questionnaire is appreciated.

PLEASE RETURN QUESTIONNAIRE BY JUNE 17, 1981

APPENDIX C

SELECTED BIBLIOGRAPHY

FOR

SECONDARY HEALTH OCCUPATIONS EDUCATION

DO NOT FILM THIS PAGE

TABLE OF CONTENTS

Health Occupations Program Standards	Page 1
Health Occupations Curriculum Guides	Page 2
General Information Related to Health Career Programs	Page 5
Health Occupations Material From Educational Resources Information Centers	Page 7
Additional Sources of Health Occupations Materials	Page 10

FOREWORD

This bibliography was compiled in the Spring of 1981 at Pittsburg State University under funding by the Kansas State Department of Education, Vocational Education Section. The project director was Catherine Junge, R.N., M.S. and the student assistant was Clifford D. Stewart, R.T.(R).

The goal of the project, Surveying and Planning for Needed Curriculum and Instructional Material for Health Occupations Exploratory Programs, is to gather information related to the number and types of secondary health occupations education programs and the availability of curriculum and instructional material related to these programs. The materials and resources contained in this bibliography are available and will be valuable in planning, developing, and improving instruction in health occupations exploratory programs.

HEALTH OCCUPATIONS PROGRAM STANDARDS

Arizona Department of Education, Division of Career and Vocational Education. Program Standards for Secondary Health Occupations Education (Checklist). Phoenix: Arizona Department of Education.

Arizona Department of Education, Division of Career and Vocational Education. Standards: Allied Health and Nursing Programs. Phoenix: Arizona Department of Education, 1978.

Colorado State Board for Community Colleges and Occupational Education. Health Occupations Education Standards. Denver: Colorado State Board for Community Colleges and Occupational Education.

Connecticut State Department of Education, Division of Vocational Education. Guidelines for Health Occupations Education. Hartford: Connecticut State Department of Education, 1977.

Florida Department of Education. Standards for Health and Public Service Education Courses. Tallahessee: Florida Department of Education.

Michigan Department of Education, Vocational-Technical Education Service. Revised Health Occupations Guidelines. Lansing: Michigan Department of Education, 1979.

New Hampshire State Department of Education, Division of Vocational-Technical Education. Guidelines for Health Occupations Programs. Concord: New Hampshire State Department of Education.

North Carolina Department of Public Instruction, Division of Occupational Education. Health Occupations Handbook for Secondary Teachers and Administrators. Raleigh: North Carolina Department of Public Instruction, 1973.

Ohio State University, Instructional Materials Laboratory. Manual of Operation: Trade and Industrial Education. Columbus: Ohio State University.

University of Texas, Instructional Materials Center. Vocational Health Occupations Education Program Standards. Austin: University of Texas, 1975.

HEALTH OCCUPATIONS CURRICULUM GUIDES

Arizona Department of Education, Tucson Skill Center. Health Occupations Program. Phoenix: Arizona Department of Education, 1975. (20 units)

Central Michigan University, Vocational Education and Career Development Service. Health Occupations Cluster Guide. Vocational Education/ Special Education Project. Mount Pleasant: Central Michigan University, 1973.

Coca, Jerry L. Health Cluster: Core Curriculum, Practical Nursing, Dental Assistant, Medical Laboratory, Medical Office. Las Vegas, New Mexico: Luna Vocational Technical Institute.

Dallas Independent School District, High School for Health Professions. Health Careers Exploration. Dallas, Texas: Dallas Independent School District, 1980. (12 modules)

East Texas State University, Occupational Curriculum Laboratory. Health Occupations Education, Units of Instruction. 3 vols. Commerce: East Texas State University, 1979.

Florida Department of Education, Technical and Health Occupations Education Section. Teaching Health Occupations Education in High School. Tallahassee: Florida Department of Education, 1971.

Hill, E. Joy. High School Health Occupations. Lexington: Univeristy of Kentucky, Instructional Materials Laboratory, 1971.

Idaho State Board for Vocational Education. Orientation to Health Occupations Curriculum Guide. Boise: Idaho State Board for Vocational Education, 1980.

Indiana University, School of Education, Vocational Education Program Area. Health Occupations Education: Model Training Plans for Secondary Cooperative Health Occupations Education. Bloomington: Indiana University, 1972.

Korsmo, Jean. Vocational Health Occupations Course. Grand Forks, North Dakota: Grand Forks Public Schools.

Maine State Department of Educational and Cultural Services, Bureau of Vocational Education. Health Occupations: A Curriculum Guide. Augusta: Maine State Department of Educational and Cultural Services, 1979.

Minnesota Department of Education, Division of Vocational-Technical Education. Minnesota Secondary Health Occupations Curriculum for Secondary Health Careers. St. Paul: Minnesota Department of Education, 1978. (12 volumes)

Minnesota Department of Education, Division of Vocational-Technical Education. Planning My Career on Purpose, Minnesota Secondary Health Occupations Curriculum. St. Paul: Minnesota Department of Education.

North Dakota State Board for Vocational Education. Recommended North Dakota Health Occupations Curriculum. Bismarck: North Dakota State Board for Vocational Education, 1978.

Ohio State University, Instructional Materials Laboratory. Diversified Health Occupations including Nurse Assistant. Columbus: Ohio State University, 1975.

Oklahoma State Department of Vocational and Technical Education, Curriculum and Instructional Materials Center. Health Services Careers. Stillwater: Oklahoma State Department of Vocational and Technical Education, 1979.

Oregon State Department of Education. Curriculum Guide for Health Occupations. Salem: Oregon State Department of Education, 1969.

Oregon State Department of Education. Health and Health Related Career Exploration. Salem: Oregon State Department of Education.

Oregon State Department of Education. Health Occupations - An Exploratory Course. Salem: Oregon State Department of Education, 1970.

Oregon State Department of Education. Health Occupations Exploratory Module. An Introduction to Gainful Employment in Health Occupations for Junior High and High School Students. Salem: Oregon State Department of Education, 1971.

Perrine, Patricia. Health Occupations: Clinical Rotations and Learning Packets. New Brunswick: Rutgers University, New Jersey Vocational-Technical Curriculum Laboratory, 1979.

Polytechnic High School. Curriculum Materials for the Allied Health Curriculum Project at Polytechnic High School. San Francisco: Polytechnic High School, 1970.

Purdy, Joan M. The World of Health Occupations: A Two Year Cooperative Program. New Brunswick: Rutgers University, New Jersey Vocational-Technical Curriculum Laboratory, 1975.

Rosenthal, Doris, and Phyllis Agran. Introduction to Allied Health Careers: Student's Manual. Los Angeles: University of California at Los Angeles, Division of Vocational Education, 1975.

Rutgers University, New Jersey Vocational-Technical Curriculum Laboratory. Health Technicians Careers: A Curriculum Guide. New Brunswick: Rutgers University.

Rutgers University, New Jersey Vocational-Technical Curriculum Laboratory. Introduction to Allied Health Careers: Teacher's Manual. New Brunswick: Rutgers University.

Rutgers University, New Jersey Vocational-Technical Curriculum Laboratory. A Model Curriculum for 10th Grade Health Occupations. New Brunswick: Rutgers University, 1974.

Santitoro, Marie. Exploring Health Careers. New Brunswick: Rutgers University, New Jersey Vocational-Technical Curriculum Laboratory, 1974.

Shawnee Mission Public Schools. Program of Study: Health Careers Exploration. Shawnee Mission, Kansas: Shawnee Mission Public Schools, 1979.

Thomas, Robert. Health Occupations, A Curriculum Manual, Introducing the Health Care Field to Secondary Students. Santa Fe: New Mexico State Department of Education, Vocational Technical Division, 1976.

University of Missouri-Columbia, Instructional Materials Laboratory. Health Services Assistant. Columbia: University of Missouri-Columbia, 1975.

Utah State Board of Education. An Overview of Health Occupations. Salt Lake City: Utah State Board of Education, 1974.

Vermont Department of Education, Division of Vocational-Technical Education. Health Occupations Instructional System Development Model for Vermont Area Vocational Centers. Montpelier: Vermont Department of Education.

Wisconsin Department of Public Instruction. Health Occupations Education in Wisconsin's Secondary Schools: A Curriculum Guide. Madison: Wisconsin Department of Public Instruction, 1977.

GENERAL INFORMATION RELATED TO HEALTH CAREERS PROGRAMS

Anderson, C.L. Health Principles and Practice. 6th ed. St. Louis: C.V. Mosby, 1970.

American Learning Systems. A Career for Tomorrow. Columbus, Georgia: American Learning Systems, 1979.

Birchenall, Joan M., and Mary E. Streight. Introduction to Health Careers. New York: J.B. Lippincott, 1978.

Casente, Connie L. "The Feasibility of a Health Occupations Course in Terreronne Parish". Nicholls State University. Thibodaux, Louisiana, 1977.

French, Ruth M. The Dynamics of Health Care. 2nd ed. New York: McGraw-Hill, 1974.

Gillespie, Wilma, and Jeanette Redford. Health Occupations Education: A Review of the Literature. Columbus, Ohio: National Center for Research in Vocational Education, 1980.

Health Occupations. Washington, D.C.: Superintendent of Documents, U.S. Government Printing Office, 1980.

Health Practitioners. Washington, D.C.: Superintendent of Documents, U.S. Government Printing Office, 1980.

Illinois State Office of Education, Board of Vocational Education and Rehabilitation. Planning Health Occupations Education at the Secondary Level: A Systems Approach. Springfield: Illinois State Office of Education.

Illinois State Office of Education, Bureau of Occupational and Adult Education. Articulation Model, K-14 Health Occupations Education. Final Report. Springfield: Illinois State Office of Education, 1978.

Junge, Catherine. Orientation to the Health Care Delivery System, An Instructional Module. Pittsburg, Kansas: Kansas Vocational Curriculum Dissemination Center, 1975.

Kansas State Department of Education. The Functional Analysis of All Clinical Services Performed for Patients by Health Care Practitioners Used as the Basis for Development of Preparatory Curriculum Directed Toward Full Articulation and Integration. Topeka: Kansas State Department of Education, 1976.

Kimbrell, Mary Ellen. Introduction to Health Care Careers, Text-Activity Manual. Bloomington, Illinois: McKnight Publishing Co., 1975.

Kinsinger, Robert E., ed. Career Opportunities for Technicians and Specialists: Health Technicians. Chicago: J.G. Ferguson, 1970.

Kintgen, Jean. Interpretation of Literature on Career Ladders and Lattices in Health Occupations Education. Columbus, Ohio: National Center for Research in Vocational Education, 1970.

Lebowitz, Gordan. Careers in Therapy, Medical Technology and Nutrition. New York: Fairchild Publications, Inc., 1973.

Lebowitz, Gordan. Nursing and Allied Careers. New York: Fairchild Publications, Inc., 1973.

Lebowitz, Gordan. You and a Health Career. New York: Fairchild Publications, Inc., 1972.

Lee, Ruth M. Orientation to Health Services. Indianapolis: Bobbs-Merril Educational Publishing, 1978.

Lewis, Laura P. and James R. Tanner. Model Allied Health Professions Counseling Program Guide for Secondary Schools. Cleveland, Ohio: Cleveland Public Schools, 1977.

Lewis, Wiley B. Review and Analysis of Curricula for Occupations in Health. Columbus, Ohio: National Center for Research in Vocational Education, 1970.

Milliken, Mary Elizabeth. Proceedings: Conference on Career Development and Program Articulation in Health. Athens: Georgia University, 1973.

Minnesota Department of Education, Division of Vocational-Technical Education. Minnesota Health Occupations Study Final Report. St. Paul: Minnesota Department of Education, 1979.

Ohio Department of Education. Career Orientation Series: The Health Cluster. Columbus: Ohio Department of Education, 1976.

Oklahoma Council for Health Careers. Profiles of Health Careers. Oklahoma City: Oklahoma Council for Health Careers.

Quincy Public Schools. Occupational Analysis: Health Occupations. Quincy, Massachusetts: Quincy Public Schools, 1968.

Rambo, Beverly J., and Diane E. Watson. Your Career in Health Care. New York: McGraw-Hill, 1976.

Science Research Associates, Inc. Jobs in Health. Chicago: Science Research Associates, Inc., 1965.

Sloane, Robert M., and Beverly L. Sloane. A Guide to Health Facilities, Personnel, and Management. St. Louis: C.V. Mosby, 1971.

Texas Hospital Education and Research Foundation. Health Careers in Texas. Austin: Texas Hospital Education and Research Foundation, 1977.

University of California at Los Angeles, Division of Vocational Education. The UCLA Allied Health Professions Projects Task Inventories. Los Angeles: University of California at Los Angeles, 1975.

Wittman, Karl S. Basic Sciences for Health Careers. New York: McGraw-Hill, 1976.

Zimmerman, Barbara, and David B. Smith. Careers in Health. Boston: Beacon Press, 1978.

HEALTH OCCUPATIONS MATERIAL FROM EDUCATIONAL RESOURCES INFORMATION CENTERS

Avery, Robert, and others. Toward an Allied Health Career Today (Operation TACT). Final Evaluation Report and Final Report. U.S., Educational Resources Information Center, ERIC Document ED 123422, 1975.

Benedict, Mary, and others. Orientation to Health Occupations: Curriculum Guide for Health Occupations, Phase 1. U.S., Educational Resources Information Center, ERIC Document ED 113449, 1973.

Benedict, Mary, and others. Orientation to Health Occupations: Curriculum Guide for Health Occupations, Phase 2. U.S., Educational Resources Information Center, ERIC Document ED 112141.

Blue Hills Regional Career Education Center, Canton, Massachusetts. The Blue Hills Model; A Collaborative Experiment in Career Development. Volume 2--A Health Services Curriculum. U.S., Educational Resources Information Center, ERIC Document ED 099464, 1975.

Coatsville Area School District, Pennsylvania. Student Volunteer: Career Elective. U.S., Educational Resources Information Center, ERIC Document ED 114656.

Connecticut University, Storrs. School of Allied Health Professions. Allied Health Field, Ninth Grade. Introduction to Allied Health and the Health Care Team. Operation TACT Toward an Allied Health Career Today Curriculum and Teachers' Handbook. U.S., Educational Resources Information Center, ERIC Document ED 123419, 1974.

Dade County Public Schools, Miami, Florida. Basic Skills for Health Occupations, Health Service Aide: 3040.04. U.S., Educational Resources Information Center, ERIC Document ED 096445, 1972.

Epstein, James. Program Guide for Development and Operation of a Secondary School Allied Health Career Program. U.S., Educational Resources Information Center, ERIC Document ED 076825, 1972.

Fisher, Allen. Allied Health Field, Eleventh Grade. Introduction to Allied Health and the Health Care Team. Operation TACT Toward an Allied Health Career Today Curriculum and Teachers' Handbook. U.S., Educational Resources Information Center, ERIC Document ED 123421, 1974.

Franken, Marion E. Secondary Health Occupation Workshop. Final Report. U.S., Educational Resources Information Center, ERIC Document ED 141600, 1974.

Georgia University, Athens, Division of Vocational Education. Health Careers Cooperative Education in Georgia High Schools. U.S., Educational Resources Information Center, ERIC Document ED 141567, 1975.

Georgia University, Athens, Division of Vocational Education. Health Careers Education Program in Georgia High Schools. U.S., Educational Resources Information Center, ERIC Document ED 141568, 1974.

Institute for Services to Education, Inc., Washington, D.C. Allied Health Counselor Training Program. Trainer's Manual. U.S., Educational Resources Information Center, ERIC Document ED 138873, 1975.

Lutz, Juanita. Guidelines for Health Occupations Education Programs in Secondary Schools. U.S., Educational Resources Information Center, ERIC Document ED 132249.

National Science Foundation, Washington, D.C. Biomedical Interdisciplinary Curriculum Project: Practicum Manual. U.S., Educational Resources Information Center, ERIC Document ED 174409, 1976.

Pike, Bill, ed. Health Careers Recruitment Program Handbook. U.S., Educational Resources Information Center, ERIC Document ED 137015, 1976.

Pleasant Hill School District, Oregon. Teacher Guide for Business Education, Child Services, Health Services, Construction Technology (Grades 7-12). U.S., Educational Resources Information Center, ERIC Document ED 118745, 1973.

Rosenthal, Doris, and Phyllis Agran. Introduction to Allied Health Careers: Teacher's Manual. Secondary School Pilot and Demonstration Project. U.S., Educational Resources Information Center, ERIC Document ED 069865, 1972.

Smith, Tracy. Allied Health Field, Tenth Grade. Introduction to Allied Health and the Health Care Team. Operation TACT Toward an Allied Health Career Today Curriculum and Teachers' Handbook. U.S., Educational Resources Information Center, ERIC Document ED 123420, 1974.

South Dakota Statewide Core Curriculum, Career Ladder and Challenge System: Volume I and II. Final Report. U.S., Educational Resources Information Center, ERIC Document ED 122061, 1975.

Temple University, Philadelphia, Division of Vocational Education. Health Occupations Modules. U.S., Educational Resources Information Center, 1978.

Communications in Health Careers -- III. The Teletrainer. ED 173666.

Communication in Health Occupations -- II. ED 173665.

Ethics --I. ED 173669.

Ethics -- II. ED 173670.

Health Careers -- I General. ED 173664.

The Integumentary System. ED 173668.

The Skeletal System -- I. ED 173667.

The Skeletal System -- II. ED 173671

Trident Technical College, Charleston, South Carolina. Planning Model for Health Careers Awareness: A Summer Program. Exemplary Project in Vocational Education, Conducted under Section 132 of Public Law 94-482. Final Report. U.S., Educational Resources Information Center, ERIC Document ED 162090, 1978.

University of California at Los Angeles, Division of Vocational Education. Evaluative Report on Phase I of the Secondary Schools Project for an Introduction to the Allied Health Professions. U.S., Educational Resources Information Center, ERIC Document ED 120521, 1971.

ADDITIONAL SOURCES OF HEALTH OCCUPATIONS MATERIALS

American Learning Systems Box 2173 Columbus, Georgia 31902	write for catalog
American Medical Association Council on Medical Education 535 North Dearborn St. Chicago, Illinois 60610	Allied Medical Education Directory 1972
Beacon Press, Inc. 25 Beacon Street Boston, Massachusetts 02108	write for catalog
Bobbs-Merrill Educational Publishing 4300 W. 62 Street Box 558 Indianapolis, Indiana 46206	Health Occupations Educational Materials. 1979.
Career Aids, Inc. 8950 Lurline Ave., Dept. V14 Chatsworth, California 91311	Selected Materials for Occupational, Vocational, and Career Education. 1980.
The Catholic Hospital Association 1438 S. Grand Blvd. St. Louis, Missouri 63104	Catalog '79.
Consolidated Health Services, Inc. 111 West Port Plaza, Suite 600 St. Louis, Missouri 63141	write for catalog
C.V. Mosby Co. 11830 Westline Industrial Drive St. Louis, Missouri 63141	write for catalog
Damon Instructional Systems 80 Wilson Way Westwood, Massachusetts 02090	write for catalog
Delmar Publishers 50 Wolf Road Albany, New York 12205	Nursing and Allied Health.
East Texas State University Occupational Curriculum Laboratory Department of Secondary and Higher Education Commerce, Texas 75428	write for catalog
Fairchild Publications, Inc. 7 East 12th Street New York, New York 10003	write for catalog
George F. Cram Company, Inc. 301 S. LaSalle Street, Box 426 Indianapolis, Indiana 46206	write for catalog

G.P. Putnam's Sons 200 Madison Avenue New York, New York 10016	Books for the Medical, Health, and Related Sciences. 1979.
Health Education Aids No. 8 South Lakeview Goddard, Kansas 67052	write for catalog
Health Insurance Institute 1850 K. Street, N.W. Washington, D.C. 20006	Health Education Materials and the Organizations that Offer them.
Health Professions Division McGraw-Hill Book Company 1221 Avenue of the Americas New York, New York 10020	1980 Health Professions Division Catalog, Nursing and Allied Health.
Health Sciences Consortium, Inc. 200 Eastowne Drive, Suite 213 Chapel Hill, North Carolina 27514	1978 Catalog of Instructional Materials.
High School for Health Professions Ross Campus 4515 Ross Avenue Dallas, Texas 75204	write for catalog
Hospital Research and Educational Trust 840 N. Lakeshore Drive Chicago, Illinois 60611	write for catalog
Illinois Office of Education Board of Vocational Education and Rehabilitation Division of Vocational and Technical Education 1035 Outer Park Drive Springfield, Illinois 62706	An Annotated Bibliography for Health Occupations: A Guide for Teachers and Students. Lindy Solon. 1975. An Annotated Bibliography of Instructional Materials in Cooperative Occupational Education. 1974.
Indiana Curriculum Materials Center TAW 200, Indiana State University Terre Haute, Indiana 47809	Vocational Education Curriculum Materials 1978-1979.
Instructional Materials Center Industrial Education Publications University of Texas Austin, Texas 78712	write for catalog
Instructional Materials Laboratory 10 Industrial Education Building University of Missouri-Columbia Columbia, Missouri 65211	Industrial Education, 1979 Catalog.

Instructional Materials Laboratory Ohio State University 1885 Neil Avenue Columbus, Ohio 43210	Trade and Industrial Education Materials Price List. 1980.
J.B. Lippincott Company East Washington Square Philadelphia, Pennwylvania 19105	Nursing and Allied Health Professions. 1980. Lippincott Learning System in Fundamental Nursing Skills. Film Loops - Procedures in Patient Care.
J.G. Ferguson Publishing Company 6 North Michigan Avenue Chicago, Illinois 60602	write for catalog
Kansas Vocational Curriculum Dissemination Center Pittsburg State University Pittsburg, Kansas 66762	An Annotated Bibliography for Individualized Instructional Materials in Health Occupations Secondary Educational Level. Luella Marie Lowe. 1979.
Longwood Division Allyn and Bacon, Inc. Link Drive Rockleigh, New Jersey 07647	write for catalog
Majors Scientific Books, Inc. 3770 Zip Industrial Blvd. P.O. Box 82686 Atlanta, Georgia 30354	Medical Books '78.
McKnight Publishing Co. P.O. Box 2854 Bloomington, Illinois 60077	write for catalog
Medical Plastics Laboratory, Inc. P.O. Box 38 Gatesville, Texas 76528	write for catalog
The National Center for Research in Vocational Education National Center Publications 1960 Kenny Road Columbus, Ohio 43210	write for catalog
National Health Council 1740 Broadway New York, New York 10019	Where to Get Health Career Information.

National Textbook Company 8259 Niles Center Road Skokie, Illinois 60077	write for catalog
New Jersey Health Careers Service 375 West State Street Trenton, New Jersey 08618	Health Careers Bibliography for Guidance Counselors, Second Edition. Peter Fabriele and Carrie R. Losi. 1970.
New Jersey Vocational-Technical Curriculum Laboratory Rutgers - The State University Building 4103 Kilmer Campus New Brunswick, New Jersey 08903	1980 Curriculum Materials.
Nystrom Division of Carnation Company 3333 Elston Avenue Chicago, Illinois 60618	write for catalog
Oklahoma State Department of Vocational and Technical Education Curriculum & Instructional Materials Center 1515 West Sixth Avenue Stillwater, Oklahoma 74074	Instructional Materials Price List. 1980.
Robert J. Brady Co. Bowie, Maryland 20715	write for catalog
Rocom Division of Hoffmann-LaRoche Inc. Nutley, New Jersey 07110	Health Employee Learning Program.
Science Research Association Inc. 259 E. Erie Chicago, Illinois 60611	write for catalog
Superintendent of Documents U.S. Government Printing Office Washington, D.C. 20402	Vocational Education State Instructional Materials for Health Occupations Education available from State Education Agencies. 1974. Vocational Instructional Materials for Allied Health Education, available from federal agencies. 1980.
Texas Hospital Education and Research Foundation 6225 U.S. Highway 290 East Austin, Texas 78761	write for catalog
Trainex Corporation P.O.Box 116 Garden Grove, California 92642	The Trainex Library.

University of California Extension Allied Health Professions Publications 617 Unex Building, 10995 Le Conte Ave. Los Angeles, California 90024	UCLA Allied Health Occupations Instructional Materials. 1981.
Vocational Curriculum Laboratory Cedar Lakes Conference Center Ripley, West Virginia 25271	write for catalog (nurse assistant)
W.B. Saunders Company West Washington Square Philadelphia, Pennsylvania 19103	write for catalog
Wisconsin Vocational Studies Center 321 Education Building University of Wisconsin Madison, Wisconsin 53706	A Bibliography of Free Loan Materials for Health Occupations Education. 1977.